

**Abstract**

An apparatus is provided to effectively reduce the non-active detection gap between sensor elements of an optical sensor. Reducing the non-active gap can

5 subsequently reduce the time delay between sensor elements, mitigating the image degrading effects of a composite element time delay. While applicable to use with a wide range of optical sensors, the invention may be used for detecting aspects of a variable-rate dynamic colorful object using a matrix sensor or a tri-linear color CCD sensor. In one variation, optical fibers extend from a first fiber optic faceplate to a

10 second fiber optic faceplate. The optical fibers can be oriented toward or directly mounted to the sensor elements. A spacer may be used to separate the optical fibers for alignment with the sensor elements and the other end of the optical fibers are attached to each other.